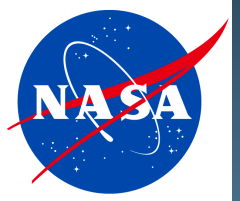


KSC: Transforming to a Multi-User Spaceport

Presented to:
NASA Climate Change Conference

Trey Carlson, KSC Master Planner
Center Planning and Development
May 15-16, 2013



KSC's Vision: Needs to be **Attainable & Sustainable**



VISION - KSC is the world's preeminent launch complex for government and commercial space access, enabling the world to explore and work in space.

An aerial photograph of a coastal region. A large, dark blue body of water occupies the right side of the frame. A narrow, light-colored strip of land, likely a causeway or beach, runs diagonally from the bottom left towards the top right, separating the water from a larger, green, forested area. The land area is divided into various sections by roads and paths. The sky is visible in the top right corner, showing some clouds.

KSC = \$5.6B IRREPLACEABLE ASSET

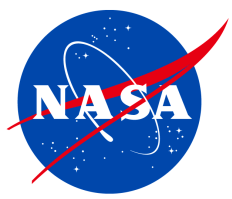
Established 1962

144k acres

84k acres purchase/ condemnation

56k, acres donated by the State

1k acres in FI-granted causeway,
rail property and other land transfers



Options on Evolution to a Multi-user Spaceport

**KSC MASTER PLAN
UPDATE**

Past

Possible Future Operating Models

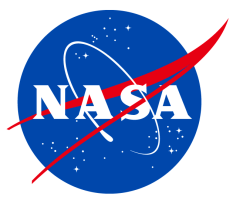
**NASA
Program
Dedicated
Use**

**NASA
Programs with
Increasing
Commercial
Users**

**NASA
Programs with
Emerging
Multi-user
Spaceport
Authority**

**Multi-user
Spaceport
Authority
with NASA
Programs
Integrated**

Target



KSC Multi-use at a Glance By Facility Use Zones

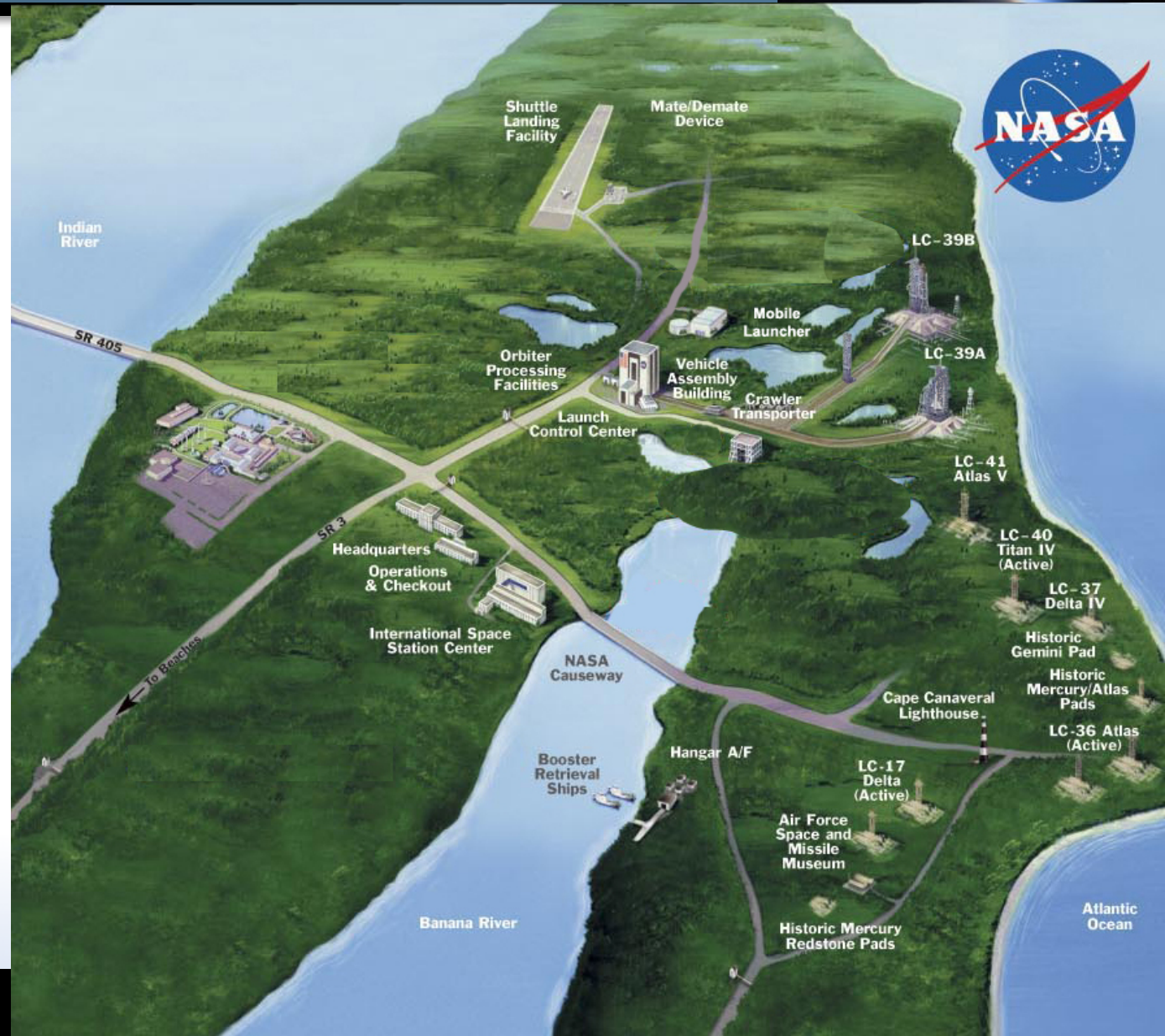
**KSC MASTER PLAN
UPDATE**

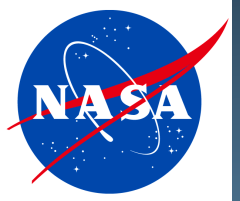
**NASA
Dedicated Use**

**Shared NASA /
Non-NASA Use**

**Non-NASA
Dedicated Use**

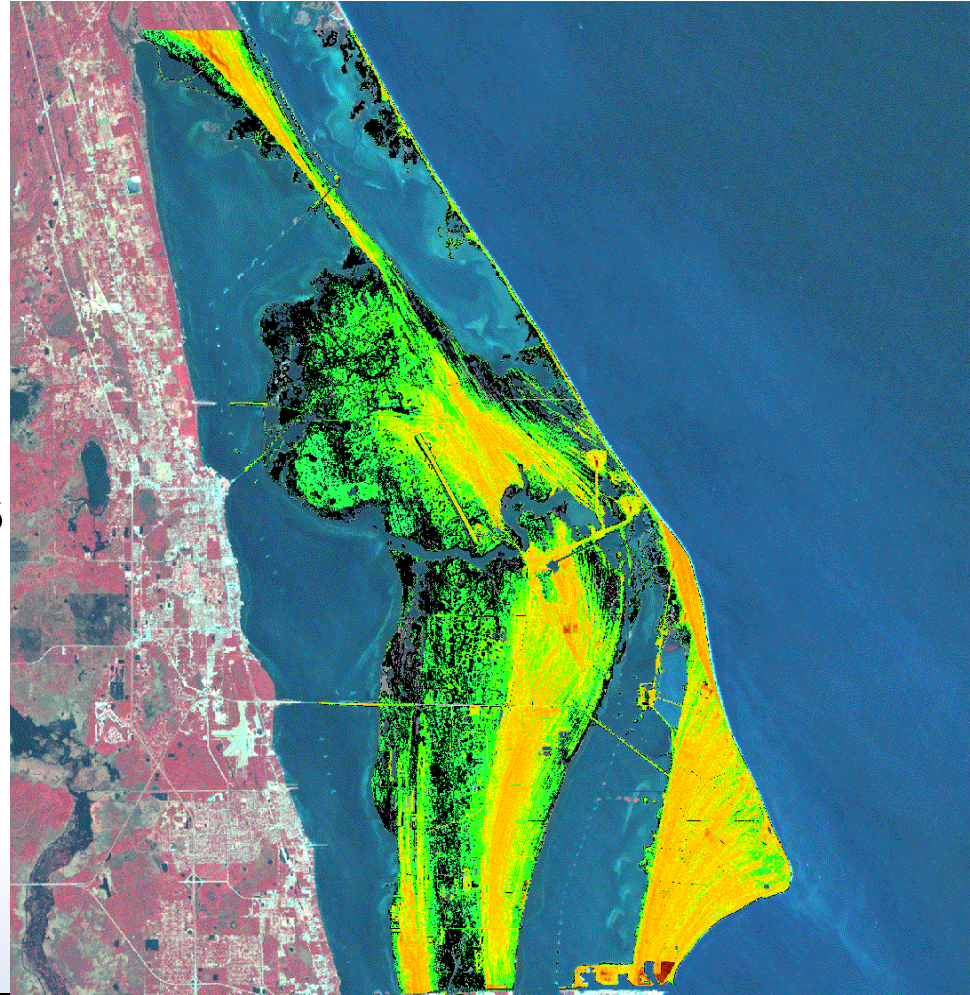
John F. Kennedy Space Center

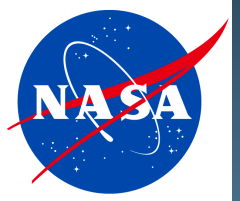




Protecting KSC Assets to ensure mission success

- τ **Conflicting land uses**
- τ **Climate Change**
- τ **Species habitat**
- τ **Non-NASA operations**





Lessons Learned and Forward Planning

τ Importance of the Master Plan

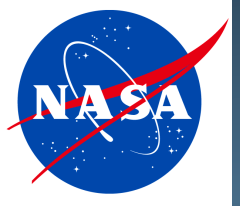
- Funding
- Steering Group
- Inter relationships (CCAFS, FDoT, Space FI, Port Canaveral)

τ Multi-User or Multi-Operator

- Center opinion and HQ

τ Underestimating the philosophy

- NASA programmatic activity
- Increased Non-commercial presence

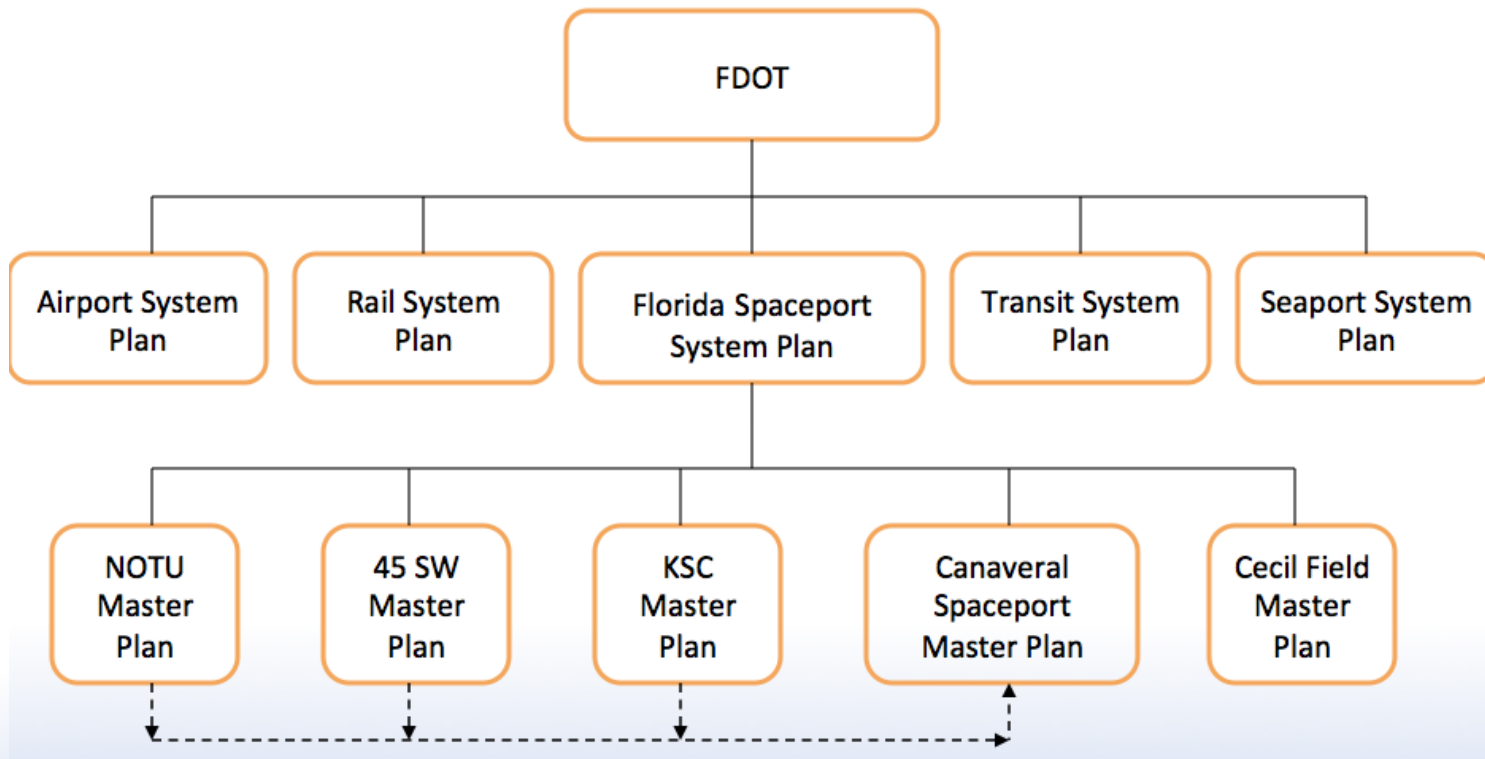


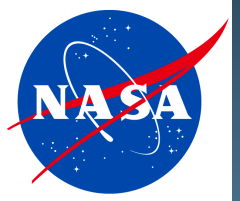
τ Backup



Integrating with the State of Florida

FDOT/Space System Planning and KSC Master Planning





Master Plan Inter-Relationships

- τ Oct 2011: 45th Space Wing Master Plan Complete
- τ Jan 2012: KSC Future Development Concept (*approved*)
- τ Apr 2012: SLF Area Development Plan Complete (*approved*)
- τ Jan 2013: FDOT Space State Intermodal System Plan
- τ July 2013: KSC Master Plan Complete
- τ Late 2013: Potential non-NASA SLF Operator
- τ Summer 2014: KSC EIS Complete